Submittal specification for versions of the SPC series surge protective device (SPC120) installed external to an electrical assembly

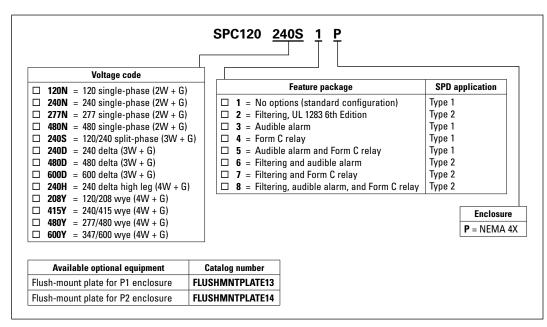
Eaton's SPC series surge protective devices (SPDs) are used to protect equipment from damage caused by surge events. This submittal specification represents the side-mount version of the SPC series units with a catalog number beginning with "SPC120." These versions are designed to be mounted external to electrical distribution assemblies and interfaced via conduit and wires.

Table 1. Surge current capacity

	Minimum surge current capacity					
Configuration	Per phase	L–N mode	L–G mode	N–G mode	L–L mode	
Single-phase (2W + G)	120	60	60	60	_	
Single split-phase (3W + G)	120	60	60	60	_	
Three-phase wye (4W + G)	120	60	60	60	—	
Three-phase delta (3W + G)	120	_	60	_	60	
Three-phase high-leg delta (4W + G)	120	60	60	60		

Table 2. Catalog number configuration

(Check appropriate boxes that apply)





Performance specifications and features of the SPD series surge protective device

- ANSI/UL® 1449 4th Edition voltage protection rating (VPR)
 - VPR for units rated, 50, 80–100, and 120–200 kA, respectively
- Overcurrent protection
 - All units contain thermally protected metal oxide varistors that contain an internal thermal element that disconnects the device safely when exposed to abnormal conditions such as temporary overvoltage or high fault current conditions.
- Monitoring and features (refer to Table 2 for a listing of individual features contained in each feature package)
- · Enclosure dimensions and weight
 - NEMA® 4X; 11.30 L x 8.70 W x 5.40 D inches, 14.6 lb

Table 3. Voltage code

Voltage	Protection mode							
code	L-N	L-G	N-G	L-L				
120–200 kA unit VPR								
120N	700	700	700	—				
240N	1000	1200	1000	_				
277N	1200	1200	1200	—				
480N	1800	1800	1800	_				
240S	700	700	700	1200				
208Y	700	700	700	1200				
415Y	1200	1200	1200	2000				
480Y	1200	1200	1200	2000				
600Y	1500	1500	1500	2500				
240D		1000	_	1000				
480D	_	1800	_	2000				
600D	_	2500	_	2500				
240H ①	700	700	700	1200				

① Additional 240H VPRs: 2000 H–L, 1200 H–N, 1200 H–G

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Table 4. Specifications

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Description	Specification			
Peak surge current capacity ratings available	50, 80, 100, 120, 150, 160, 200 kA per phase			
Nominal discharge current (I _n)	20 kA			
Short-circuit current rating (SCCR)	200 kA			
Single-phase voltages available (2W + G)	120, 240, 277, 480			
Split-phase voltages available (3W + G)	120/240			
Three-phase wye system voltages available (4W + G)	120/208, 240/415, 277/480, 347/600			
Three-phase delta system voltages available (3W + G)	240, 480, 600			
Three-phase high-leg delta system voltages available (4W + G)	240			
Input power frequency	50/60 Hz			
Protection modes				
Single-phase	L-N, L-G, N-G			
Single split-phase	L–N, L–G, N–G, L–L			
Three-phase wye	L–N, L–G, N–G, L–L			
Three-phase delta	L-G, L-L			
Maximum continuous operating voltage (MCOV)			
120N voltage code	150 L–N, 150 L–G, 150 N–G			
240N, 277N voltage code	320 L–N, 320 L–G, 320 N–G			
480N voltage code	550 L–N, 550 L–G, 550 N–G			
240S, 208Y voltage code	150 L—N, 150 L—G, 150 N—G, 300 L—L			
240H voltage code	150 L–N, 150 L–G, 150 N–G, 300 L–L, 470 H–L, 320 H–N, 320 H–G			
415Y, 480Y voltage code	320 L–N, 320 L–G, 320 N–G, 640 L–L			
600Y voltage code	420 L–N, 420 L–G, 420 N–G, 840 L–L			
240D voltage code	320 L–G, 300 L–L			
480D voltage code	550 L-G, 640 L-L			
600D voltage code	840 L–G, 840 L–L			
Ports	1			
Operating temperature	-40 °F to +140 °F (-40 °C to +60 °C)			
Storage temperature	-40 °F to +140 °F (-40 °C to +60 °C)			
Operating humidity	5% through 95%, noncondensing			
Operating altitude	Up to 2000 m (6561 ft)			
Agency certifications/listing	UL 1449 4th Edition, UL 1283 7th Edition, CSA® C22.2 No. 269.1-14 for Type 1 SPD			
	CSA C22.2 No. 269.2-13 for Type 2 SPD, CSA C22.2 No. 8-13 for EMI filter			
Durability repetitive strike test	Passed 12,000 strikes to ANSI/IEEE® C62.41 (20 kV, 10 kA) Category C waveform			
SPD type	UL 1449 4th Edition and CSA Type 1 and Type 2 SPD (dependent on feature options)			
Enclosure rating	NEMA 4X enclosure ①			
Form C relay contact ratings	2 A at 30 Vdc or 250 Vac			
Form C relay contact logic	Power ON, normal state— NO contact = open, NC contact = closed			
	Power OFF or fault state— NO contact = closed, NC contact = open			
EMI/RFI filtering attenuation	Up to 40 dB from 10 kHz to 100 MHz			
RoHS compliant	Yes			
Warranty	5 years standard, 10 years with product registration at Eaton.com/spc			

① Mounting feet required to achieve NEMA 4X rating.

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